



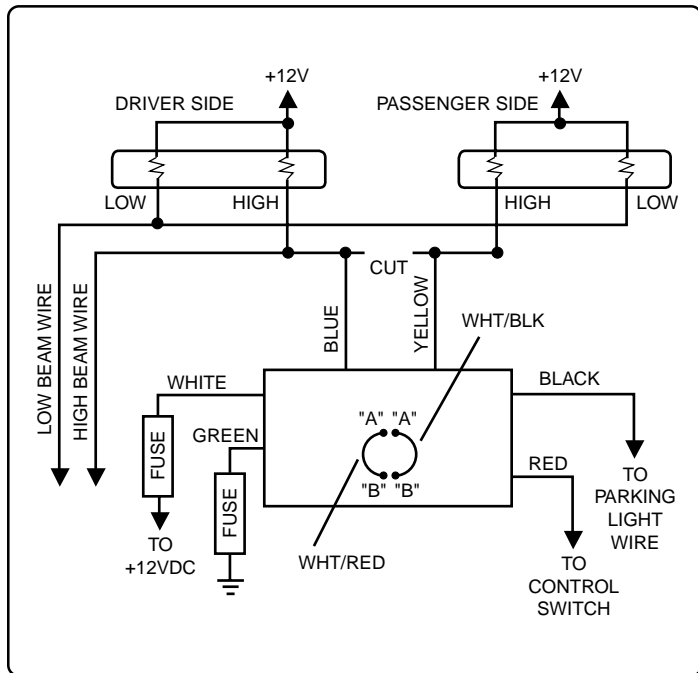
1340 Russell Cave Road • Lexington, Kentucky 40505

# GALL'S GROUND SIDE SWITCHED SMART FLASHER FS003 AND FS004 w/ AMP QUICK DISCONNECT PLUG

The Ground Side Switched Smart Flasher will operate a two or four headlight system on most vehicles with ground side switched headlights.\* The Smart Flasher gives you 3 different flash patterns in 1 flasher.

Please contact Gall's Technical Service at 800-837-3982 if you are unsure of the headlight wiring for your specific vehicle. You will also need to call for any vehicle that has Daytime Running Lights on it's headlights.

A properly installed Smart Flasher has 3 operating modes built into 1 flasher. Mode 1 will alternate (wig-wag) the headlights at 1.9 flashes / second. Mode 2 will alternate the headlights at 3.0 flashes / second. Mode 3 consists of a varying flash that will continuously cycle through 3 patterns: alternating flash at 1.9 f.p.s., simultaneous flash at 3.0 f.p.s., and a fast alternating flash at 3.0 f.p.s. When used at night, the low beam headlights remain ON for proper illumination while the high beams flash to gain attention and increase the vehicle's visibility. When the dimmer switch is activated to high beam, the flasher system's "High beam over-ride" interrupts the flasher sequence to allow normal high beam function. Flashing automatically resumes when the dimmer switch is de-activated.



**WIRING DIAGRAM**

## INSTALLATION

### NOTE

Please refer to the Compatible/Non-Compatible Vehicle lists before attempting installation.

### NOTE

With most ground switched vehicles, the low beam headlights must be turned on before the headlight flasher will operate. This is due to the design of the headlight system.

**MOUNTING:** Mount the Flasher near the battery at the front of the engine compartment.

**GREEN WIRE:** Connect to the negative post of the battery through a 15 amp fuse.

**BLUE & YELLOW WIRES:** Locate the wire that supplies ground to the passenger side high beam headlight. Cut this wire approximately 10" to 12" from the back of the headlight. Connect the Yellow wire to the lead that returns to the passenger side high beam. Connect the Blue wire to the other cut lead. This will operate the driver side high beam.

**RED WIRE:** Connect to a switched source of power. This switch will only require 1/4 amp to activate the Flasher.

**WHITE WIRE:** Connect through a 1 amp fuse to a reliable +12v source.

**OPTIONAL - BLACK WIRE:** If an "Automatic Nighttime Cut-Off" is required, simply "T" or tap the black wire into a parking light wire.

### NOTE

**DO NOT CONNECT TO THE LOW BEAM WIRE.** If not required, cut off excess wire and tape end.

**WHITE/RED Loop Wire:** Used to select pattern. Follow matrix to obtain desired pattern.

**WHITE/BLACK Loop Wire:** Used to select pattern. Follow matrix to obtain desired pattern.

**OPTION #1: SINGLE FLASH PATTERN**

Cut loop wire and tape-off at both ends of cut wire. The Flasher will NOT be activated until power is applied to the RED wire.

	WHITE/RED	WHITE/BLACK
Mode # 1 - 1.9 f.p.s.	LOOP	LOOP
Mode # 2 - 3.0 f.p.s.	CUT	LOOP
Mode # 3 - Varying	LOOP	CUT

**OPTION #2: SELECTABLE FLASH PATTERN**

Cut loop wire and tape-off end "A". Connect end "B" to switch connected to +12v. The Flasher will NOT be activated until power is applied to the RED wire.

	WHITE/RED	WHITE/BLACK
Mode # 1 - 1.9 f.p.s.	+12v	+12v
Mode # 2 - 3.0 f.p.s.	0v	+12v
Mode # 3 - Varying	+12v	0v

**FS003 AND FS004 COMPATIBLE VEHICLE LIST**

<b>ACURA</b> Acura Integra 1989 and later Acura Legend
<b>CHRYSLER</b> 1997 and later Chrysler Sebring
<b>DODGE</b> 1986 and later Dodge D50 Truck 1997 and later Dodge Avenger 1999 and 2000 Dodge Durango* (see Dodge Caution) 1999 and 2002 Dodge Ram* (see Dodge Caution) 1999 and 2000 Dodge Dakota* (see Dodge Caution)
<b>EAGLE</b> 1990 and later Eagle Talon
<b>FORD</b> 2000 and later Taurus
<b>GEO</b> 1991 Geo Metro 1992 and later Geo Prizm 1992 and later Geo Storm 1992 and later Geo Tracker
<b>GM</b> 1994 - 1996 Corsica/Beretta 1995 and later Cavalier 1996 and later Regal, Century 1996 and later Malibu 1997 and later Silhouette, Transport, Ventura Vans 1998 and later Ciera, Cutlass, Intrigue 1998 and later S10, Blazer, Sonoma, Jimmy 1999 and later CK 1500, 2500, 3500** (see Chevy Caution) 2000 and later Astro 2000 and later Safari 2000 and later Impala 2000 and later Tahoe and Suburban** (see Chevy Caution)
<b>HONDA</b> 1991 and later Honda Prelude and Accord
<b>HYUNDAI</b> 1988 and later Hyundai SL-GL

<b>ISUZU</b> 1991 and later Isuzu Truck 1994 and later Isuzu Trooper
<b>LEXUS</b> 1992 and later Lexus LS400
<b>MITSUBISHI</b> 1990 and later Mitsubishi Montero 1993 and later Mitsubishi Eclipse
<b>SATURN</b> All
<b>SUZUKI</b> 1991 and later Suzuki Swift
<b>TOYOTA</b> Toyota T100 Full Size 1986 and later Toyota Truck 1986 and later Toyota Tercel 1986 and later Toyota 4 x 4 Truck 1987 and later Toyota Corolla 1992 and later Camry 1995 and later Tacoma

**\*DODGE CAUTION\***

DO NOT install a Headlight Flasher on a 2001 and later Dodge Dakota, Dodge Durango or a 2002 and later Dodge Ram 1500 - 1/2 ton truck. Installation will cause permanent damage to the vehicle's electrical system.

**\*\*CHEVY CAUTION\*\***

For use on vehicles with Orange and Purple headlight wires ONLY.

This is not a complete list, but rather a comprehensive list of vehicles Gall's knows to have Ground Side Switching Headlights. Call 1-800-837-3982 if your vehicle IS NOT on this list.

**GALL'S FIVE YEAR WARRANTY**

Gall's is the only company that offers a full five year warranty...a guarantee that assures you long-lasting service on your vehicle light equipment. No one else offers you this peace of mind.

Covered by U.S. Patent #4114071 and #4309639.